JUN 1 6 2003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF MAILING I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on 6.12.03 Date Signature Typed or printed name of person signing certificate

REVOCATION OF POWERS OF ATTORNEY AND APPOINTMENT OF NEW ATTORNEYS AND/OR AGENTS AND CHANGE OF CORRESPONDENCE ADDRESS

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Massachusetts Institute of Technology, a corporation duly organized under the laws of the Commonwealth of Massachusetts, together with The Penn State Research Foundation, a corporation organized and existing under the laws of the State of Pennsylvania, are the assignees of the entire right, title and interest in the patent applications/patents identified in Attachment A. Massachusetts Institute of Technology and The Penn State Research Foundation hereby appoints Carolyn S. Elmore, Registration No. 37,567 and Anne I. Craig, Registration Number 32,976, and/or agents associated with:

Elmore Craig, P.C. 209 Main Street No. Chelmsford, Massachusetts 01863

to prosecute the identified applications/patents and any divisions or continuations thereof and to conduct all business in the United States Patent and Trademark Office. All previously granted Powers of Attorney are hereby revoked.

Statements under 37 C.F.R. §3.73(b) with Attachment A are submitted herewith.

All correspondence should be sent to Elmore Craig, P.C., 209 Main Street, No. Chelmsford, Massachusetts 01863. Please direct all telephone calls to Carolyn S. Elmore, Esq. at (978) 273-3298.

Respectfully submitted,
Massachusetts Institute of Technology
By The M. Felipsion
Title: Patent Administrator
Date May 23, 2003
The Penn State Research Foundation
By:
Title:
Date:

ATTACHMENT A

	JP	
David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, and Robert S. Langer	Atty. Docket N	o.: 2846.1001-000
08/655,570	Group:	1615
May 24, 1996	Examiner:	R. Bawa
N/A		
Porous Particles for Pulmonary Drug Delivery		
N/A	Granted: N/A	
 Massachusetts Institute of Technology The Penn State Research Foundation 		
1. July 26, 1996 2. March 5, 1998	Reel: 1. 9013 2. 8875	Frames: 1. 0930-0934 2. 0876-0885
	Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, and Robert S. Langer 08/655,570 May 24, 1996 N/A Porous Particles for Pulmon N/A 1. Massachusetts Institute of 2. The Penn State Research 1. July 26, 1996	Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, and Robert S. Langer 08/655,570 Group: May 24, 1996 Examiner: N/A Porous Particles for Pulmonary Drug Deliver N/A 1. Massachusetts Institute of Technology 2. The Penn State Research Foundation 1. July 26, 1996 Reel: 1. 9013

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria and Robert S. Langer	Atty. Docket No.: 2846.1001-001		
Application No.:	09/194,068	Group: 1619		
Filed:	May 23, 1997 (Int'l Filing Date) April 8, 1999 (371(c) Date)	Examiner: R. Bawa		
Confirmation No.:	2765			
Title:	Aerodynamically Light P	articles for Pulmonary Drug Delivery		
Patent No.:	6,503,480	Granted: January 7, 2003		
Assignee:	 Massachusetts Institute of Technology The Penn State Research Foundation 			
Recordation Date:	 April 8, 1999 April 8, 1999 	Reel: 1. 9923 Frames: 1. 0384-0392 2. 9925 2. 0098-0103		
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.:2846.1001-007		
Application No.:	09/569,153	Group: 1619		
Filed:	May 11, 2000	Examiner: R. Bawa		
Confirmation No.:	N/A			
Title:	Porous Particles for Deep	Porous Particles for Deep Lung Delivery (As Amended)		
Patent No.:	6,254,854	Granted: July 3, 2001		
Assignee:	 The Penn State Research Massachusetts Institute 			
Recordation Date:	 October 30, 2000 July 26, 1996 	Reel: 1. 011211 Frames: 1. 0319-0321 2. 8875 2. 0876-0875		

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.: 2846.1001-008		
Application No.:	09/888,688	Group: 1616		
Filed:	June 25, 2001	Examiner: R. Bawa		
Confirmation No.:	2505			
Title:	Porous Particles Compris Amended)	sing Excipients For Deep Lung Delivery (As		
Patent No.:	6,436,443B2	Granted: August 20, 2002		
Assignee:	 The Penn State Research Foundation Massachusetts Institute of Technology 			
Recordation Date:	1. October 30, 2000 2. July 26, 1996	Reel: 1. 011211 Frames: 1. 0319-0321 2. 8875 2. 0876-0875		
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.: 2846.1001-009		
Application No.:	09/891,131	Group: 1616		
Filed:	June 25, 2001	Examiner: Mina Haghighatian		
Confirmation No.:	2511			
Title:	Spray Dried Porous Particles For Deep Lung Delivery (As Amended)			
Patent No.:	6,447,753	Granted: September 10, 2002		
Assignee:	 The Penn State Research Massachusetts Institute 			
Recordation Date:	 October 30, 2000 July 26, 1996 	Reel: 1. 011211 Frames: 1. 0319-0321 2. 8875 2. 0876-0875		

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer, and Abdellaziz Ben-Jebria	Atty. Docket No.	: 2846.1001-010
Application No.:	09/888,781	Group:	1616
Filed:	June 25, 2001	Examiner:	Mina Haghighatian
Confirmation No.:	9010		
Title:	Amorphous Porous Partic	cles For Deep Lung	Delivery (As Amended)
Patent No.:	6,447,752	Granted: Septen	nber 10, 2002
Assignee:	 The Penn State Resear Massachusetts Institut 		
Recordation Date:	 October 30, 2000 July 26, 1996 	Reel: 1. 011211 2. 8875	Frames: 1. 0319-0321 2. 0876-0875
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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria and Robert S. Langer	Atty. Docket No.:	2846.1001-028
Application No.:	10/090,418	Group:	1617
Filed:	March 1, 2002	Examiner:	n/a
Confirmation No.:	8180		
Title:	Aerodynamically Light Pa	rticles For Pulmona	ry Drug Delivery
Patent No.:	N/A	Granted: N/A	
Assignee:	The Penn State Research Foundation Massachusetts Institute of Technology		
Recordation Date:	 April 8, 1999 April 8, 1999 	Reel: 1. 9925 2. 9923	Frame(s): 1. 0098-0102 2. 0384-0392

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer, and Abdellaziz Ben-Jebria	Atty. Docket	: No.: 2846.1001-031	
Application No.:	10/209,654	Group:	1616	
Filed:	July 30, 2002	Examiner:	Not assigned	
Confirmation No.:	5830			
Title:	Porous Particles Compri	sing Excipients	s For Deep Lung Delivery	
Patent No.:	N/A	Granted: N	/A	
Assignee:	 Massachusetts Institut The Penn State Resea 			
Recordation Date:	1. March 5, 1998 2. October 30, 2000	Reel: 1. 9013 2. 0112		
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket	No.: 2846.1002-000	
Application No.:	08/739,308	Group:	1615	
Filed:	October 29, 1996	Examiner:	Raj Bawa	
Confirmation No.:	N/A			
Title:	Aerodynamically Light Particles For Pulmonary Drug Delivery			
Patent No.:	5,874,064	Granted: February 23, 1999		
Assignee:	 Massachusetts Institute of Technology The Penn State Research Foundation 			
Recordation Date:	2. January 17, 1997	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918	

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket N	o.: 2846.1002-001
Application No.:	09/211,940	Group:	1615
Filed:	December 15, 1998	Examiner:	S. Howard
Confirmation No.:	N/A		
Title:	Aerodynamically Light Pa	articles For Pulmo	nary Drug Delivery
Patent No.:	6,136,295	Granted: Octo	ber 24, 2000
Assignee:	 Massachusetts Institute of Technology The Penn State Research Foundation 		
Recordation Date:	 January 17, 1997 January 17, 1997 	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert s. Langer	Atty. Docket No	o.: 2846.1002-002
Application No.:	09/562,988	Group:	1615
Filed:	May 1, 2000	Examiner:	S. Howard
Confirmation No.:	N/A		
Title:	Aerodynamically Light Particles For Pulmonary Drug Delivery		
Patent No.:	6,399,102	Granted: June 4,	2002
Assignee:	 The Penn State Research Foundation Massachusetts Institute of Technology 		
Recordation Date:	1. August 29, 2000 2. August 29, 2000	Reel: 1. 011098 2. 011098	Frames: 1. 0746-0749 2. 0720-0724

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket N	No.: 2846.1002-003	
Application No.:	90/006,092	Group:	1616	
Filed:	August 22, 2001	Examiner:	Mina Haghighatian	
Confirmation No.:	7468			
Title:	Aerodynamically Light Par	ticles For Pulmo	nary Drug Delivery	
Patent No.:	5,874,064C1	Certificate Issu	led: December 10, 2002	
Assignee:	 Massachusetts Institute The Penn State Research 			
Recordation Date:	 January 17, 1997 January 17, 1997 	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918	
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket N	o.: 2846.1002-004	
Application No.:	90/006,094	Group:	1616	
Filed:	August 22, 2001	Examiner:	Mina Haghighatian	
Confirmation No.:	7466	<u></u>		
Title:	Aerodynamically Light Part	icles For Pulmon	ary Drug Delivery	
Patent No.:	6,136,295C1	Granted: October 29, 2002		
Assignee:		sachusetts Institute of Technology Penn State Research Foundation		
Recordation Date:	1. January 17, 1997 2. January 17, 1997	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918	

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellazai Ben-Jebria, and Robert S. Langer	Atty. Docket No.: 2846.1002-005	
Application No.:	10/027,212	Group: 1615	
Filed:	December 20, 2001	Examiner: Sharon Lee Howard	
Confirmation No.:	1760		
Title:	Aerodynamically Light Par	ticles For Pulmonary Drug Delivery	
Patent No.:	N/A	Granted: N/A	
Assignee:	 The Penn State Research Foundation Massachusetts Institute of Technology 		
Recordation Date:	1. August 29, 2000 2. August 29, 2000	Reel: 1. 011098 Frames: 1. 0746-0749 2. 011098 2. 0720-0724	
Applicants:	Justin Hanes, David A. Edwards, Carmen Evora, and Robert L. Langer	Atty. Docket No.: 2846.1003-000	
Application No.:	08/784,421	Group: 1615	
Filed:	January 16, 1997	Examiner: G. Kishore	
Confirmation No.:	N/A		
Title:	Particles Incorporating Surfactants For Pulmonary Drug Delivery		
Patent No.:	5,855,913	Granted: January 5, 1999	
Assignee:	 Massachusetts Institute of Technology The Penn State Research Foundation 		
Recordation Date:	1. March 20, 1997 2. March 20, 1997	Reel: 1. 8531 Frames: 1. 0042-0046 2. 8529 2. 0138-0140	

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No	.: 2846.1003-006
Application No.:	09/394,233	Group:	1616
Filed:	September 13, 1999	Examiner:	Mina Haghighatian
Confirmation No.:	3922		
Title:	Preparation of Novel Part	ticles For Inhalation	1
Patent No.:	N/A	Granted: N/A	
Assignee:	 Massachusetts Institute of Technology The Penn State Research Foundation 		
Recordation Date:	1. January 3, 2000 2. January 3, 2000	Reel: 1. 010504 2. 010504	Frames: 1. 0362-0367 2. 0329-0333
Applicants:	Justin Hanes, David A. Edwards, Carmen Evora, and Robert S. Langer	Atty. Docket No.	: 2846.1003-007
Application No.:	09/351,341	Group:	1615
Filed:	July 12, 1999	Examiner:	G. Kishore
Confirmation No.:	N/A		
Title:	Particles Incorporating Sur	rfactants For Pulmo	onary Drug Delivery
Patent No.:	RE37,053 E	Granted: Februar	y 13, 2001
Assignee:	Massachusetts Institute of Technology The Penn State Research Foundation		
Recordation Date:	1. March 20, 1997	Reel: 1. 8531	Frames: 1, 0042-0046

David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang and Donghao Chen	Atty. Docket No	o.: 2846.1003-008
08/971,791	Group:	1616
November 17, 1997	Examiner:	K. Shelborne
N/A		
Preparation of Particles For	· Inhalation	
5,985,309	Granted: Nove	ember 16, 1999
 December 22, 1997 December 22, 1997 	Reel: 1. 9108 2. 9108	Frames: 1. 0667-0671 2. 0695-0702
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David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.	.: 2846.1003-009
09/752,106	Group:	1616
December 29, 2000	Examiner:	Mina Haghighatian
8230		
Particles For Inhalation Hav	ring Sustained Rela	ease Properties
N/A	Granted: N/A	
	<u> </u>	
	S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang and Donghao Chen 08/971,791 November 17, 1997 N/A Preparation of Particles For 5,985,309 1. Massachusetts Institute of 2. The Penn State Research 1. December 22, 1997 2. December 22, 1997 David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen 09/752,106 December 29, 2000 8230 Particles For Inhalation Hav N/A 1. Massachusetts Institute of	S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang and Donghao Chen 08/971,791 Group: November 17, 1997 Examiner: N/A Preparation of Particles For Inhalation 5,985,309 Granted: Nove 1. Massachusetts Institute of Technology 2. The Penn State Research Foundation 1. December 22, 1997 Reel: 1. 9108 2. December 22, 1997 2. 9108 David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen 09/752,106 Group: December 29, 2000 Examiner: 8230 Particles For Inhalation Having Sustained Rel N/A Granted: N/A 1. Massachusetts Institute of Technology

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.	: 2846.1003-010
Application No.:	09/909,145	Group:	1619
Filed:	July 19, 2001	Examiner:	Not Assigned
Confirmation No.:	7807		
Title:	Particles For Inhalation H	laving Sustained Re	elease Properties
Patent No.:	N/A	Granted: N/A	
Assignee:	 Massachusetts Institute of Technology The Penn State Research Foundation 		
Recordation Date:	1. January 3, 2000 2. January 3, 2000	Reel: 1. 010504 2. 010504	Frames: 1. 0362-0367 2. 0329-0333
		l de la companya de l	
Applicants:	Rita Vanbever, Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards	Atty. Docket No.:	2846.1003-011
Application No.:	60/059,004	Group:	N/A
Filed:	September 15, 1997	Examiner:	N/A
Confirmation No.:	N/A		
Title:	Preparation of Novel Parti	cles for Inhalation	
Patent No.:	N/A	Granted: N/A	
Assignee:	N/A		
Recordation Date:	N/A	Reel: N/A	Frame(s): N/A

	-12	? -		
Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No	o.: 2846.1003-012	
Application No.:	09/006,091	Group:	1616	
Filed:	July 12, 1999	Examiner:	Mina Haghighatian	
Confirmation No.:	7469			
Title:	Particles Incorporating Sur	factants For Puln	nonary Drug Delivery	
Patent No.:	RE37,053	Granted: Febru	nary 13, 2001	
Assignee:	 Massachusetts Institute The Penn State Researc 			
Recordation Date:	 March 20, 1997 March 20, 1997 	Reel: 1. 8531 2. 8529	Frames: 1. 0042-0046 2. 0138-0140	
Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket N	fo.: 2846.1003-013	
Application No.:	90/006,093	Group:	1616	
Filed:	August 22, 2001	Examiner:	Mina Haghighatian	
Confirmation No.:	7467			
Title:	Preparation Of Particles Fo	r Inhalation		
Patent No.:	5,985,309 C1	Granted: Dec	ember 31, 2002	
Assignee:	 Massachusetts Institute of the Penn State Research 			
Recordation Date:	1. December 22, 1997 2. December 22, 1997	Reel: 1. 9108 2. 9108	Frames: 1. 0667-0671 2. 0695-0702	

Applicants:	Rita Vanbever, Robert S. Langer, David A. Edwards, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.	.: 2846.1003-014
Application No.:	10/094,955	Group:	1616
Filed:	March 7, 2002	Examiner:	Mina Haghighatian
Confirmation No.:	7624		
Title:	Particles For Inhalation Hav	ving Sustained Rele	ease Properties
Patent No.:	N/A	Granted: N/A	
Assignee:	 The Penn State Research Massachusetts Institute of 		
Recordation Date:	1. November 7, 2002 2. November 7, 2002	Reel: 1. 013470 2. 013468	Frames: 1. 0864-0867 2. 0360-0368
Application No.:	10/420,071	Group:	Not assigned
Filed:	April 18, 2003	Examiner:	Not assigned
Confirmation No.:	N/A		
Title:	Particles for Inhalation Havi	ng Sustained Relea	ase Properties
Patent No.:	N/A	Granted: N/A	
Assignee:	 Massachusetts Institute of The Penn State Research 		
Recordation Date:	1. August 13, 2001 2. August 13, 2001	Reel: 1. 012078 2. 012078	Frames: 1. 0156-0164 2. 0137-0140



STATEMENT UNDER 37 C.F.R. § 3.73(b)

	M	assachusetts Institute of Technology	
		(Name of Assignee)	(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)
states tl	hat it is		
A.	[X]		enn State Research Foundation, of the entire right, title and interest in the tiffied in the attached Attachment A; or
B.	[]	an assignee together with [above.] of the entire right, title and interest in the patent application identified
The rig	ht, title a	and interest of the above-named assi	gnee in the patent application identified above is established by virtue of:
A. [X]	An ass record attache	ed in the Patent and Trademark Offi	patent application(s)/patents identified in Attachment A. The assignment wice at the Reel(s) and Frame(s) indicated in Attachment A, or a copy thereof
OR			
B.[]	A chai	n of title from the inventor(s) of the	patent application identified above, to the current assignee as shown below:
	1.	From: The document was recorded in th Reel , Frame	To: e Patent and Trademark Office at, or a copy thereof is attached.
	2.	From: The document was recorded in the Reel , Frame	To: e Patent and Trademark Office at, or a copy thereof is attached.
	3.	From: The document was recorded in the Reel , Frame	To: e Patent and Trademark Office at, or a copy thereof is attached.
	[] A	dditional documents in the chain of	title are listed on a supplemental sheet.
The und	lersigne	d (whose title is supplied below) is a	authorized to act on behalf of the assignee.
Date:		Mry 23, 2003	
		Ha M. Filipowird	•
		atent Administrator	
	_	Itam Alepawa	

ATTACHMENT A

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David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, and Robert S. Langer	Atty. Docket No	o.: 2846.1001-000
08/655,570	Group:	1615
May 24, 1996	Examiner:	R. Bawa
N/A		
Porous Particles for Pulmonary Drug Delivery		
N/A	Granted: N/A	
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 July 26, 1996 March 5, 1998 	Reel: 1. 9013 2. 8875	Frames: 1. 0930-0934 2. 0876-0885
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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria and Robert S. Langer	Atty. Docket No.:	2846.1001-001	
Application No.:	09/194,068	Group:	1619	
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Title:	Aerodynamically Light Pa	articles for Pulmona	ry Drug Delivery	
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Assignee:	 Massachusetts Institute The Penn State Resear 			
Recordation Date:	 April 8, 1999 April 8, 1999 	Reel: 1. 9923 2. 9925	Frames: 1. 0384-0392 2. 0098-0103	
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.:	2846.1001-007	
Application No.:	09/569,153	Group:	1619	
Filed:	May 11, 2000	Examiner:	R. Bawa	
Confirmation No.:	N/A			
Title:	Porous Particles for Deep	Lung Delivery (As	Amended)	
Patent No.:	6,254,854	Granted: July 3,	2001	
Assignee:	 The Penn State Resear Massachusetts Institute 		·	
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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.:	: 2846.1001-008
Application No.:	09/888,688	Group:	1616
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Title:	Porous Particles Comprise Amended)	ing Excipients For	Deep Lung Delivery (As
Patent No.:	6,436,443B2	Granted: Augus	et 20, 2002
Assignee:	 The Penn State Resear Massachusetts Institute 		
Recordation Date:	1. October 30, 2000 2. July 26, 1996	Reel: 1. 011211 2. 8875	Frames: 1. 0319-0321 2. 0876-0875
),	
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.:	2846.1001-009
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Application No.:	10/090,418	Group:	1617
Filed:	March 1, 2002	Examiner:	n/a
Confirmation No.:	8180		
Title:	Aerodynamically Light Pa	articles For Pulmon	ary Drug Delivery
Patent No.:	N/A	Granted: N/A	
Assignee:	The Penn State Research Massachusetts Institute		
Recordation Date:	 April 8, 1999 April 8, 1999 	Reel: 1. 9925 2. 9923	Frame(s): 1. 0098-0102 2. 0384-0392

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer, and Abdellaziz Ben-Jebria	Atty. Docket No.:	2846.1001-031
Application No.:	10/209,654	Group:	1616
Filed:	July 30, 2002	Examiner:	Not assigned
Confirmation No.:	5830		
Title:	Porous Particles Compri	sing Excipients For	Deep Lung Delivery
Patent No.:	N/A	Granted: N/A	
Assignee:	 Massachusetts Institu The Penn State Resea 		
Recordation Date:	 March 5, 1998 October 30, 2000 	Reel: 1. 9013 2. 011211	Frames: 1. 0930-0934 2. 0319-0321
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No.:	2846.1002-000
Application No.:	08/739,308	Group:	1615
Filed:	October 29, 1996	Examiner:	Raj Bawa
Confirmation No.:	N/A		
Title:	Aerodynamically Light P	articles For Pulmon	ary Drug Delivery
Patent No.:	5,874,064	Granted: Februa	ry 23, 1999
Assignee:	 Massachusetts Institut The Penn State Resea 		

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria,	Atty. Docket No.	: 2846.1002-001
	and Robert S. Langer		
Application No.:	09/211,940	Group:	1615
Filed:	December 15, 1998	Examiner:	S. Howard
Confirmation No.:	N/A		
Title:	Aerodynamically Light Par	ticles For Pulmon	ary Drug Delivery
Patent No.:	6,136,295	Granted: Octob	per 24, 2000
Assignee:	 Massachusetts Institute The Penn State Research 		
Recordation Date:	 January 17, 1997 January 17, 1997 	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918
			Pagagori Pagagori
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert s. Langer	Atty. Docket No.	: 2846.1002-002
Application No.:	09/562,988	Group:	1615
Filed:	May 1, 2000	Examiner:	S. Howard
Confirmation No.:	N/A		
Title:	Aerodynamically Light Par	ticles For Pulmon	ary Drug Delivery
Patent No.:	6,399,102	Granted: June 4,	2002
Assignee:	 The Penn State Researc Massachusetts Institute 		
Recordation Date:	1. August 29, 2000 2. August 29, 2000	Reel: 1. 011098 2. 011098	Frames: 1. 0746-0749 2. 0720-0724

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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No	o.: 2846.1002-003
Application No.:	90/006,092	Group:	1616
Filed:	August 22, 2001	Examiner:	Mina Haghighatian
Confirmation No.:	7468		
Title:	Aerodynamically Light Part	ticles For Pulmon	ary Drug Delivery
Patent No.:	5,874,064C1	Certificate Issue	ed: December 10, 2002
Assignee:	 Massachusetts Institute of The Penn State Research 		
Recordation Date:	 January 17, 1997 January 17, 1997 	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No	o.: 2846.1002-004
Application No.:	90/006,094	Group:	1616
Filed:	August 22, 2001	Examiner:	Mina Haghighatian
Confirmation No.:	7466		
Title:	Aerodynamically Light Part	ticles For Pulmon	ary Drug Delivery
Patent No.:	6,136,295C1	Granted: Octo	ober 29, 2002
Assignee:	 Massachusetts Institute of the Penn State Research 	_,	
Recordation Date:	1. January 17, 1997 2. January 17, 1997	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918

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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellazai Ben-Jebria, and Robert S. Langer	Atty. Docket No.	: 2846.1002-005
Application No.:	10/027,212	Group:	1615
Filed:	December 20, 2001	Examiner:	Sharon Lee Howard
Confirmation No.:	1760		
Title:	Aerodynamically Light Part	icles For Pulmona	ry Drug Delivery
Patent No.:	N/A	Granted: N/A	
Assignee:	 The Penn State Research Massachusetts Institute of 		
Recordation Date:	 August 29, 2000 August 29, 2000 	Reel: 1. 011098 2. 011098	Frames: 1. 0746-0749 2. 0720-0724
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Applicants:	Justin Hanes, David A. Edwards, Carmen Evora, and Robert L. Langer	Atty. Docket No.	: 2846.1003-000
Application No.:	08/784,421	Group:	1615
Filed:	January 16, 1997	Examiner:	G. Kishore
Confirmation No.:	N/A		
Title:	Particles Incorporating Surf	actants For Pulmo	nary Drug Delivery
Patent No.:	5,855,913	Granted: Janua	ry 5, 1999
Assignee:	 Massachusetts Institute The Penn State Research 		
Recordation Date:	1. March 20, 1997 2. March 20, 1997	Reel: 1. 8531 2. 8529	Frames: 1. 0042-0046 2. 0138-0140

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.:	2846.1003-006
Application No.:	09/394,233	Group:	1616
Filed:	September 13, 1999	Examiner:	Mina Haghighatian
Confirmation No.:	3922		
Title:	Preparation of Novel Part	icles For Inhalation	
Patent No.:	N/A	Granted: N/A	
Assignee:	 Massachusetts Institute The Penn State Resear 		·
Recordation Date:	1. January 3, 2000 2. January 3, 2000	Reel: 1. 010504 2. 010504	Frames: 1. 0362-0367 2. 0329-0333
	A STATE OF THE STA		
Applicants:	Justin Hanes, David A. Edwards, Carmen	Atty. Docket No.:	2846.1003-007
	Evora, and Robert S. Langer		
Application No.:	•	Group:	1615
Application No.:	Langer	Group: Examiner:	1615 G. Kishore
 	Description		
Filed:	Langer 09/351,341 July 12, 1999	Examiner:	G. Kishore
Filed: Confirmation No.:	Langer 09/351,341 July 12, 1999 N/A	Examiner:	G. Kishore
Filed: Confirmation No.: Title:	Langer 09/351,341 July 12, 1999 N/A Particles Incorporating Su	Examiner: rfactants For Pulmo Granted: Februar e of Technology	G. Kishore

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang and Donghao Chen	Atty. Docket No.:	2846.1003-008
Application No.:	08/971,791	Group:	1616
Filed:	November 17, 1997	Examiner:	K. Shelborne
Confirmation No.:	N/A	·	
Title:	Preparation of Particles For Inhalation		
Patent No.:	5,985,309	Granted: Novem	nber 16, 1999
Assignee:	Massachusetts Institute of Technology The Penn State Research Foundation		
Recordation Date:	 December 22, 1997 December 22, 1997 	Reel: 1. 9108 2. 9108	Frames: 1. 0667-0671 2. 0695-0702
Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.:	2846.1003-009
Application No.:	09/752,106	Group:	1616
Filed:	December 29, 2000	Examiner:	Mina Haghighatian
Confirmation No.:	8230		
Title:	Particles For Inhalation Having Sustained Release Properties		
Patent No.:	N/A	Granted: N/A	
Assignee:	Massachusetts Institute of Technology The Penn State Research Foundation		
Recordation Date:	1. August 13, 2001 2. August 13, 2001	Reel: 1. 012078 2. 012078	Frames: 1. 0137-0140 2. 0156-0164

6.1745.16.198.189.66.61.03.19.19.19.18.14.66.66.			
David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.:	2846.1003-010	
09/909,145	Group:	1619	
July 19, 2001	Examiner:	Not Assigned	
7807			
Particles For Inhalation Having Sustained Release Properties			
N/A	Granted: N/A		
 Massachusetts Institute of Technology The Penn State Research Foundation 			
1. January 3, 2000 2. January 3, 2000	Reel: 1. 010504 2. 010504	Frames: 1. 0362-0367 2. 0329-0333	
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Rita Vanbever, Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards	Atty. Docket No.:	2846.1003-011	
Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and	Atty. Docket No.:	2846.1003-011 N/A	
Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards			
Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards 60/059,004	Group:	N/A	
Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards 60/059,004 September 15, 1997	Group: Examiner:	N/A	
Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards 60/059,004 September 15, 1997 N/A	Group: Examiner:	N/A	
Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards 60/059,004 September 15, 1997 N/A Preparation of Novel Part	Group: Examiner: icles for Inhalation	N/A	
	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen 09/909,145 July 19, 2001 7807 Particles For Inhalation H N/A 1. Massachusetts Institute 2. The Penn State Resear 1. January 3, 2000	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen 09/909,145 Group: July 19, 2001 Examiner: 7807 Particles For Inhalation Having Sustained Re N/A Granted: N/A 1. Massachusetts Institute of Technology 2. The Penn State Research Foundation 1. January 3, 2000 Reel: 1. 010504	

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.:	2846.1003-012	
Application No.:	09/006,091	Group:	1616	
Filed:	July 12, 1999	Examiner:	Mina Haghighatian	
Confirmation No.:	7469			
Title:	Particles Incorporating Surfactants For Pulmonary Drug Delivery			
Patent No.:	RE37,053	Granted: February 13, 2001		
Assignee:	Massachusetts Institute of Technology The Penn State Research Foundation			
Recordation Date:	 March 20, 1997 March 20, 1997 	Reel: 1. 8531 2. 8529	Frames: 1. 0042-0046 2. 0138-0140	
		Section 18 Contract		
Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No	o.: 2846.1003-013	
Applicants: Application No.:	S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue	Atty. Docket No	1616	
	S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen			
Application No.:	S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen 90/006,093	Group:	1616	
Application No.:	S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen 90/006,093 August 22, 2001	Group: Examiner:	1616	
Application No.: Filed: Confirmation No.:	S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen 90/006,093 August 22, 2001 7467	Group: Examiner: or Inhalation	1616	
Application No.: Filed: Confirmation No.: Title:	S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen 90/006,093 August 22, 2001 7467 Preparation Of Particles Fo	Group: Examiner: or Inhalation Granted: Dece	1616 Mina Haghighatian	

Applicants:	Rita Vanbever, Robert S. Langer, David A. Edwards, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.:	2846.1003-014	
Application No.:	10/094,955	Group:	1616	
Filed:	March 7, 2002	Examiner:	Mina Haghighatian	
Confirmation No.:	7624			
Title:	Particles For Inhalation Having Sustained Release Properties			
Patent No.:	N/A	Granted: N/A		
Assignee:	 The Penn State Research Foundation Massachusetts Institute of Technology 			
Recordation Date:	1. November 7, 2002 2. November 7, 2002	Reel: 1. 013470 2. 013468	Frames: 1. 0864-0867 2. 0360-0368	
Application No.:	10/420,071	Group:	Not assigned	
Filed:	April 18, 2003	Examiner:	Not assigned	
Confirmation No.:	N/A			
Title:	Particles for Inhalation Having Sustained Release Properties			
Patent No.:	N/A	Granted: N/A		
Assignee:	Massachusetts Institute of Technology The Penn State Research Foundat on			
Recordation Date:	1. August 13, 2001 2. August 13, 2001	Reel: 1. 012078 2. 012078	Frames: 1. 0156-0164 2. 0137-0140	